

# FILE NOTATIONS

Entered in NID file

Entered on SR Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

## COMPLETION DATA:

Date Well Completed 10-19-57

OW \_\_\_\_\_ WY \_\_\_\_\_ TA \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA X

Location Inspected

Bond released

State of Fee Land

## LOGS FILED

Driller's Log 11-24-57

Electric Logs (No. ) 5

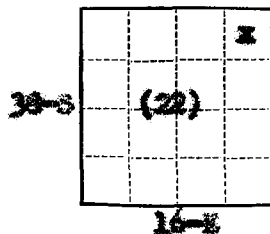
E \_\_\_\_\_ I \_\_\_\_\_ E-I ✓ GR \_\_\_\_\_ GR-N ✓ M ✓

Lat \_\_\_\_\_ Mi-L 6 Sonic \_\_\_\_\_ Others Perforation

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah  
Lease No. UTAH 04335  
Unit Federal Southern Union



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

FEDERAL SOUTHERN UNION

July 11, 19 57

Well No. 1 is located 990 ft. from N line and 700 ft. from E line of sec. 22

NE/4, SE/4, Sec. 22  
(1/4 Sec. and Sec. No.)

30-5  
(Twp.)

16-2  
(Range)

Salt Lake  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the Surface ~~1111/1111~~ above sea level is 5124 ft. Ungraded

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The above location has been selected to test the Hermosa "BHF", Paradox "J", Paradox "K" and Mississippian sands, the tops of which will be found at approximately 1900, 2050, 2300 and 3150 ft. respectively.

We will run and cement (from top to bottom) 8-5/8" OD casing at approximately 200 feet as surface pipe; we will run and cement 5-1/2" OD casing as the oil string.

We will drill this well with rotary tools.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Sinclair Oil & Gas Company  
601 Denver Club Building  
Address Denver 2, Colorado

By Frank H. H. H.

Title Asst. Div. Supt. - Production Dept.

COMPANY Sinclair Oil & Gas Company

Well Name & No. Southern Union-Federal No. 1

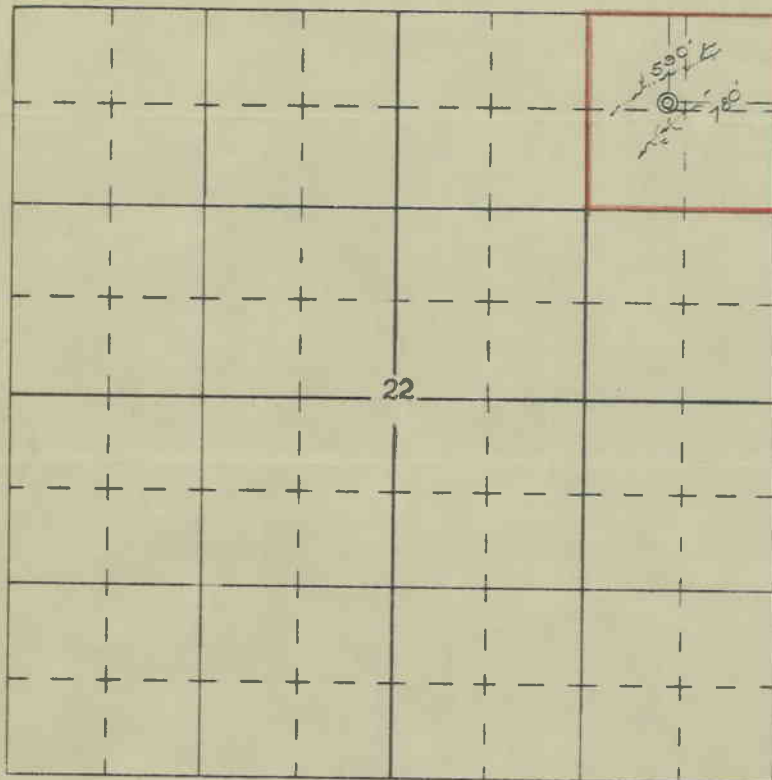
Lease No. \_\_\_\_\_

Location 590' from the North line and 780' from the East line.

Being in NE<sup>1</sup>NE<sup>1</sup>

Sec. 22, T38 <sup>So</sup> N., R 16 <sup>East</sup> W., ~~N.M.P.M.~~, Salt Lake Meridian, San Juan County, Utah.

Ground Elevation 5484, ungraded.



Scale -- 4 inches equals 1 mile

Surveyed May 28

, 19 57

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Four States Oil Field Surveys  
Farmington, New Mexico

Ernest V. Echohawk

Ernest V. Echohawk

Registered Land Surveyor

N. M. Reg. #1545

Practicing in Utah under laws  
regulating Professional Engrs.  
and Land Surveyors, Utah code 1953,  
Title 58-10-16.

July 15, 1957

Sinclair Oil & Gas Company  
601 Denver Club Building  
Denver 2, Colorado

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Federal Southern Union 1, which is to be located 590 feet from the north line and 780 feet from the east line of Section 22, Township 38 South, Range 16 East, SEEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGET  
SECRETARY

CBF:en

cc: Don Russell, Dist. Eng.  
U.S.G.S. Federal Building  
Salt Lake City, Utah

Budget Bureau No. 42-R356.5.  
Approval expires 12-31-60.

LAND OFFICE **Salt Lake City, Utah**

LEASE NUMBER **UTAH 04335**

UNIT \_\_\_\_\_

2144  
C-14  
10-2-77

Agent's address 601 Denver Club Building  
Denver 2, Colorado  
Phone AMherst 6-2461

Company Sinclair Oil & Gas Company  
Signed R. W. Newport  
Agent's title Div. Chief Clerk - Prod Dept

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Salt Lake City, Utah

Land Office

UTAH 04335

Lease No.

Federal Southern Union

Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

			X
		(22)	

16-B

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			
Notice of Casing & Tubing Casing	XX		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

FEDERAL SOUTHERN UNION

September 19, 1957

Well No. 1 is located 590 ft. from {N} line and 780 ft. from {E} line of sec. 22

NE 1/4 NE 1/4 Sec 22

38-S

16-S

Salt Lake

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Wildcat

San Juan

Utah

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the ~~4114/1661~~ surface above sea level is 5484 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

8-23-57 Spudded 10 AM 8-22-57

8-30-57 Cased 13-3/8" @ 499' w/550 sz @ 4:30 AM Circulated cement

9-1-57 Total csg 650' OK for 30".

9-19-57 Delg ahead @ 2810'

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Sinclair Oil & Gas Company  
601 Denver Club building  
Address Denver 2, Colorado

By *M. J. Newport*

Title Div. Chief Clerk - Prod Dept

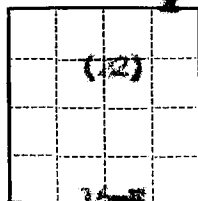
(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office 04235

Lease No. Federal Northern Union

Unit \_\_\_\_\_



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	<u>XXX</u>
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 30, 1957

Well No. 1 is located 590 ft. from N line and 780 ft. from E line of sec. 22  
1/4 1/4 Sec 22 30-3 1-1 Salt Lake

114000 Sec. and Sec. No. (Twp.) 30-3 Range (Meridian) Utah  
(Field) surface (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5221 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

9-30-57 Prepare to run 5 1/2" OD Casing

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Sinclair Oil & Gas Company  
c/o C. L. Rogers  
Address 601 Denver Club Bldg  
Denver, Colorado

By B. W. Kuyper  
Title Div. Chief Clerk - Prod Dept.

FEDERAL SOUTHERN UNION WELL No. 1  
San Juan County, Utah

- 9-15-57 Cored Upper Basal Hermosa 2301-22, Rec 21'; 4' limestone, grey very vuggy, heavily spotted oil stain, strong, sulphur odor, some oil saturation, much bleeding; 3' limestone, light brown, very vuggy, fine oil saturation, much bleeding; 2' limestone, white to grey, fine crystalline, some vugs, porosity, spotty oil stain and bleeding; 3' limestone, white, fine crystalline, fine oolitic, trace fine vug porosity, strong sulphur odor, trace oil stain; 1' limestone, grey fine to medium crystalline, hard and tight; 4' limestone, light brown, very fine crystalline, hard, small calcite inclusions, 4' limestone, light brown, hard, some black silty trashy shale laminations fossiliferous.
- 9-16-57 DST 2275-2322, Basal Upper Hermosa. Open 1 hr, air immediately w/weak blow. Rec. 20' drlg mud with very slight trace oil. FP-45#, 60" SIP-160# not max.



LAND OFFICE

**Salt Lake City, Utah**

LEASE NUMBER

UTAH 04335

UNIT

State Utah County San Juan Field Wildcat

Agent's address 601 Denver Club Building Company Sinclair Oil & Gas Company

**Denver 2, Colorado**

*Signed*

Phone Amherst 6-2461

Agent's title Div. Chief Clerk - Prod Dept

HE/4  
NE/4

**Sec 22**

385

16E

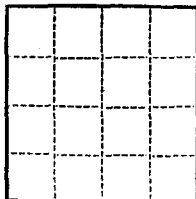
1

3885-TD Waiting on  
smert.

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office Salt Lake  
Lease No. Utah 0435  
Unit \_\_\_\_\_

## SUNDRY NOTICES AND REPORTS ON WELLS

*note  
Calk  
10-28-57*

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL	<input checked="" type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

FEDERAL SOUTHERN REGION October 19, 19 57Well No. 1 is located 590 ft. from N line and 780 ft. from E line of sec. 22NE 1/4 NE 1/4 Section 22 36-S 36-S Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)Wildcat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)The elevation of the ~~downhole~~ <sup>surface</sup> above sea level is 5154 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See supplementary well history attached.

Will plug and abandon as follows per instructions U.S.G.S., Casper, Wyoming:

25 sacks cement plug 1967-1915'.  
25 sacks cement plug 1356-1384'.  
15 sacks cement plug 515-475'.

After standing two weeks, will cup with cement and install regulation marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SINGLAIR OIL & GAS COMPANYAddress 601 Denver Club BuildingDenver 2, ColoradoBy Tom WashTitle Asst. Div. Prod. Supt.

FEDERAL SOUTHERN UNION WELL NO. 1

- 10- 2-57 Spotted 37 sx cement plugs 2885-2785', 3392-3292' & 2700-2600'. Ran in hole & found top of cement @ 2755'. Prep re-spot top plug.
- 10- 3-57 Cement plug re-spotted but exact depth not available. Top of cement 2623'.
- 10- 4-57 Spotted 18 sx cement plug 2650-2600' & found top @ 2622'. Cmtd 5½" csng @ 2603' w/252 sx @ 9:30 PM 10-3-57. Used centralizers @ 2565', 2378', 2321', 2291' & 2265'. WOC.
- 10- 5-57 Running Gamma Ray-Neutron.
- 10-6--57 Cond. hole.
- 10- 7-57 Perf. 2328-42' w/4 holes /ft. Prep to swab.
- 10- 8-57 Tested 5½" - OK - 30" @ 800#.
- 10- 9-57 Down 24 hrs swab unit repairs.
- 10-10-57 Acidized perfs 2328-42' w/500 gals MCA, BD 1400 #, PI 700#, IR 2 BPM. Pulled swab 6 times & unit broke down & was down 24 hrs. Started swb & swb LW f/4 hrs. Swb 126 bbls sulphur wtr 16 hrs. Now swb 6 bbls/hr. Prep to squeeze.
- 10-11-57 Set CI ret @ 2320'. Prep squeeze.
- 10-12-57 Sqzd perfs 2328-42' w/50 sx, 47 sx in form, rev. 3 sx. PI @ 1500#, MP 3000#. WOC.
- 10-13-57 2320-PBD WOC.
- 10-14-57 Perf BASAL UPPER HERMOSA 2294-2312' w/4 jets/ft. W/pkr @ 2247' swb dry. Prep acid w/250 gals MCA.
- 10-15-57 Acid perfs 2294-2312' w/250 gals MCA. MP 1800# @ .3 BPM. Swb 15 BLW; now swb 1/4 to 1/2 BW per hr w/sli sulphur odor. Prep to acidize.
- 10-16-57 No report - radio out acct weather.
- 10-17-57 Acidized perfs 2294-2312' w/1000 gals LST, MP 900#, Min. 700#; inj rate 1 BPM. Swb 42 bbls LW & AW 4 hrs. Swb 51 bbls sli salty sulphur water 15 hrs. Prep set BP & re-perf.
- 10-18-57 Set BP @ 2290' & perf 2270-80' w/4 holes/ft. W/pkr @ 2219' & bottom of tail pipe @ 2280', swb 9 bbls SWtr/hr f/10 hrs w/sli show oil. Prep to P&A.
- 10-19-57 Prep to P&A.
- 10-20-57 2290-PBD. Pulled & rec 1976' 5½" csng. Spotted 25 sx cmt 1987-1915'; 25 sx 1356-1284; 35 sx 515-475'. COMPLETED DRY HOLE.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R356.5.  
Approval expires 12-31-60.  
**Salt Lake City**

LAND OFFICE  
LEASE NUMBER  
UNIT

UTAH 04335

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Wildcat  
The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 19 57 Federal Southern Union  
Agent's address 601 Denver Club Building Company Sinclair Oil & Gas Company  
Denver 2, Colorado Signed R. W. Newport  
Phone AMherst 6-2461 Agent's title Div. Chief Clerk

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE/4 NE/4 Sec 22	38S	16E	1							Plugged and Abandoned. Refer to Notice of Intention to plug and abandon dated 10/19/57.
FINAL REPORT										

NOTE.—There were NO runs or sales of oil; NO M cu. ft. of gas sold;

NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

FEDERAL SOUTHERN UNION WELL NO. 1

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- 10- 3-57 Cement plug re-spotted but exact depth not available. Top of cement 2623'.
- 10- 4-57 Spotted 18 sx cement plug 2650-2600' & found top @ 2622'. Gntd 5 $\frac{1}{2}$ " csng @ 2603' w/252 sx @ 9:30 PM 10-3-57. Used centralizers @ 2565', 2378', 2321', 2291' & 2265'. WOC.
- 10- 5-57 Running Gamma Ray-Neutron.
- 10-6--57 Cond. hole.
- 10- 7-57 Perf. 2328-42' w/4 holes /ft. Prep to swab.
- 10- 8-57 Tested 5 $\frac{1}{2}$ " - OK - 30" @ 800#.
- 10- 9-57 Down 24 hrs swab unit repairs.
- 10-10-57 Acidized perfs 2328-42' w/500 gals MCA, BD 1400 #, PI 700#, IR 2 BPM. Pulled swab 6 times & unit broke down & was down 24 hrs. Started swb & swb LW f/4 hrs. Swb 126 bbls sulphur wtr 16 hrs. Now swb 6 bbls/hr. Prep to squeeze.
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- 10-18-57 Set BP @ 2290' & perf 2270-80' w/4 holes/ft. W/pkr @ 2219' & bottom of tail pipe @ 2280', swb 9 bbls Swtr/hr f/10 hrs w/sli show oil. Prep to P&A.
- 10-19-57 Prep to P&A.
- 10-20-57 2290-PBD. Pulled & rec 1976' 5 $\frac{1}{2}$ " csng. Spotted 25 sx cmt 1987-1915'; 25 sx 1356-1284; 35 sx 515-475'. COMPLETED DRY HOLE.

FEDERAL SOUTHERN UNION WELL No. 1  
San Juan County, Utah

- 9-15-57 Cored Upper Basal Hermosa 2301-22, Rec 21'; 4' limestone, grey very vuggy, heavily spotted oil stain, strong, sulphur odor, some oil saturation, much bleeding; 3' limestone, light brown, very vuggy, fine oil saturation, much bleeding; 2' limestone, white to grey, fine crystalline, some vugs, porosity, spotty oil stain and bleeding, 3' limestone, white, fine crystalline, fine oolitic, trace fine vug porosity, strong sulphur odor, trace oil stain; 1' limestone, grey fine to medium crystalline, hard and tight; 4' limestone, light brown, very fine crystalline, hard, small calcite inclusions, 4' limestone, light brown, hard, some black silty trashy shale laminations fossiliferous.
- 9-16-57 DST 2275-2322, Basal Upper Hermosa. Open 1 hr, air immediately w/weak blow. Rec. 20' drlg mud with very slight trace oil. FP-45#, 60" SIP-160# not max.

16E

U. S. LAND OFFICE Salt Lake  
SERIAL NUMBER Utah 04335  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_

385

(22)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company Sinclair Oil & Gas Company Address 601 Denver Club Bldg., Denver, Colo  
 Lessor or Tract Federal Southern Union Field Wildcat State Utah  
 Well No. 1 Sec. 22 T. 38S R. 16E Meridian SLPM County San Juan  
 Location 590 ft. N of N Line and 780 ft. E of E Line of Section 22 Elevation 5484 GL  
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date November 8, 1957

Title Asst. Div Supt. Prod Dept

The summary on this page is for the condition of the well at above date.

Commenced drilling August 22, 1957 Finished drilling October 19, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ~~DRY HOLE~~ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_      No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_      No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	499	550	HOWCO		
5-1/2	2603	252	HOWCO		

## PLUGS AND ADAPTERS

### Heaving plug—Material

Length

### Dentist set

**FOLD | MARK**

# MUDDING AND CEMENTING RECORD

W  
FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	499	550	HOWCO		
5-1/2	2603	252	HOWCO		

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from Surface feet to 3885 TD feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

\_\_\_\_\_, 19\_\_\_\_ Put to producing \_\_\_\_\_, 19\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, °Bé. \_\_\_\_\_

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

H. T. Adams \_\_\_\_\_, Driller O. L. Bass \_\_\_\_\_, Driller  
P. W. Cope \_\_\_\_\_, Driller Basin Drilling Corporation \_\_\_\_\_, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2301	2322		Limestone, vuggy, fine, sulphur odor, crystalline some calcite inclusions, silty shale.

WELL SURVEYS: Electric Log - Surface to 3894 - Schlumberger  
 Microlog - Surface to 3891 - Schlumberger  
 GR & NS - Surface to 3894 - Schlumberger  
 GR & NS - Surface to 2564 - McCullough

PERFORATION RECORD: 2328-2342 with 4 holes per ft., 2270-2280 with 4 holes per ft.

TREATMENT RECORD: 2328-2342 w/500 Gals MCA. Min press: 1400; 2294-2312 w/250 Gals MCA 1800 Max Press. 2294-2312 w/1000 Gals LST. Max Pres: 900. Min: 700.

SEE ATTACHED SHEET FOR CORES AND DRILL STEM TESTS.

### GEOLOGICAL TOPS (Schlumberger)

Hermosa	1334	4150
Paradox	2317	43167
Lower Hermosa	2890	42594
Molas	3152	42332
Mississippian	3342	42142
Devonian	3850	41634

COMPLETION RECORD: Having drilled to 3885-TD and having found no oil or gas in commercial quantities, we have plugged and abandoned this well as follows: Spotted 25 ex cmt plug 1987-1915; 25 ex 1356-1204; 35 ex 515-475. Regulation 4" pipe marker cmtd in place. all intervening spaces filled with heavy mud. Location cleaned.



# SINCLAIR OIL & GAS COMPANY

P. O. Box 4005  
Albuquerque, N.M.  
April 29, 1958

*CW  
H/10*

Mr. Robert Gorden  
Texas National Petroleum Company  
902 South Coast Building  
Houston 2, Texas

*43-037-11101*

Re: No. 1 Federal Southern Union,  
Section 22, 38S - 16E,  
San Juan County, Utah;  
#115 San Juan

Dear Sir:

Enclosed are four photostatic copies of Notice of Intention to Abandon Well and supplementary well history on the above referenced well, on which your Company made an acreage contribution.

We will furnish you with approved copies of the Subsequent Report of Abandonment when the same has been approved by the U.S.G.S.

Yours very truly,

SINCLAIR OIL & GAS COMPANY

*FDR*

Frank D. Rippey  
District Landman

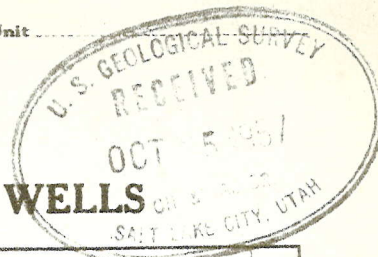
FDR:rp  
Enclosures

*All record to geob.  
N*

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYField Office Salt LakeLease No. Utah 04335

Unit \_\_\_\_\_



## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<b>XX</b>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 19, 1957

FEDERAL SOUTHERN UNIONWell No. 1 is located 590 ft. from N line and 780 ft. from E line of sec. 22NE 1/4 NE 1/4 Section 22  
(1/4 Sec. and Sec. No.)18-3  
(Twp.)16-E  
(Range)Salt Lake  
(Meridian)Wildcat

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the surface ~~drill hole~~ above sea level is 5484 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See supplementary well history attached.

Will plug and abandon as follows per instructions U.S.G.S., Casper, Wyoming:

25 sacks cement plug 1987-1915'.

25 sacks cement plug 1356-1284'.

35 sacks cement plug 515-475'.

After standing two weeks, will cap with cement and install regulation marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SINCLAIR OIL & GAS COMPANYAddress 601 Denver Club BuildingDenver 2, ColoradoBy Frank WashburnTitle Asst. Div. Prod. Supt.Approved OCT 18 1957

District Engineer



FEDERAL SOUTHERN UNION WELL NO. 1

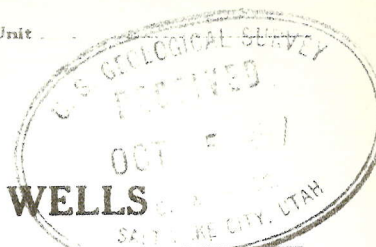
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- 10- 3-57 Cement plug re-spotted but exact depth not available. Top of cement 2623'.
- 10- 4-57 Spotted 18 sx cement plug 2650-2600' & found top @ 2622'. Cmtd 5 1/2" casing @ 2603' w/252 sx @ 9:30 PM 10-3-57. Used centralizers @ 2565', 2378', 2321', 2291' & 2265'. WOC.
- 10- 5-57 Running Gamma Ray-Neutron.
- 10- 6--57 Cond. hole.
- 10- 7-57 Perf. 2328-42' w/4 holes /ft. Prep to swab.
- 10- 8-57 Tested 5 1/2" - OK - 30" @ 800#.
- 10- 9-57 Down 24 hrs swab unit repairs.
- 10-10-57 Acidized perfs 2328-42' w/500 gals MCA, BD 1400 #, PI 700#, IR 2 BPM. Pulled swab 6 times & unit broke down & was down 24 hrs. Started swb & swb LW f/4 hrs. Swb 126 bbls sulphur wtr 16 hrs. Now swb 6 bbls/hr. Prep to squeeze.
- 10-11-57 Set CI ret @ 2320'. Prep squeeze.
- 10-12-57 Sqzd perfs 2328-42' w/50 sx, 47 sx in form, rev. 3 sx. PI @ 1500#, MP 3000#. WOC.
- 10-13-57 2320-PBD WOC.
- 10-14-57 Perf BASAL UPPER HERMOSA 2294-2312' w/4 jets/ft. W/pkr @ 2247' swb dry. Prep acid w/250 gals MCA.
- 10-15-57 Acid perfs 2294-2312' w/250 gals MCA. MP 1800# @ .3 BPM. Swb 15 BW; now swb 1/4 to 1/2 BW per hr w/sli sulphur odor. Prep to acidize.
- 10-16-57 No report - radio out acct weather.
- 10-17-57 Acidized perfs 2294-2312' w/1000 gals LST, MP 900#, Min. 700#; inj rate 1 BPM. Swb 42 bbls LW & AW 4 hrs. Swb 51 bbls sli salty sulphur water 15 hrs. Prep set BP & re-perf.
- 10-18-57 Set BP @ 2290' & perf 2270-80' w/4 holes/ft. W/pkr @ 2219' & bottom of tail pipe @ 2280', swb 9 bbls Swtr/hr f/10 hrs w/sli show oil. Prep to P&A.
- 10-19-57 Prep to P&A.
- 10-20-57 2290-PBD. Pulled & rec 1976' 5 1/2" casing. Spotted 25 sx cmt 1987-1915'; 25 sx 1356-1284; 35 sx 515-475'. COMPLETED DRY HOLE.



(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYand Office Salt LakeLease No. Utah 04335

Unit \_\_\_\_\_



## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
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NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<b>XX</b>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 19, 1951

FEDERAL SOUTHERN UNIONWell No. 1 is located 590 ft. from N line and 780 ft. from E line of sec. 22NE/4 NE/4 Section 22  
(1/4 Sec. and Sec. No.)38-S  
(Twp.)16-E  
(Range)Salt Lake  
(Meridian)Wildcat  
(Field)San Juan  
(County or Subdivision)Utah  
(State or Territory)The elevation of the ~~surface~~ surface above sea level is 5484 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See supplementary well history attached.

Will plug and abandon as follows per instructions U.S.G.S., Casper, Wyoming:

25 sacks cement plug 1987-1915'.  
25 sacks cement plug 1356-1284'.  
35 sacks cement plug 515-475'.

After standing two weeks, will esp with cement and install regulation marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SINGLATE OIL & GAS COMPANYAddress 601 Denver Club BuildingDenver 2, ColoradoBy Frank WashburnTitle Asst. Dir. Prod. Dept.Approved OCT 18 1951

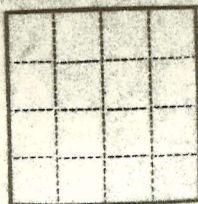
District Engineer



FEDERAL SOUTHERN UNION WELL NO. 1

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- 10- 6-57 Cond. hole.
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- 10-11-57 Set CI ret @ 2320'. Prep squeeze.
- 10-12-57 Sqsd perfs 2328-42' w/40 ex, 47 ex in form, rev. 3 ex. PI @ 1500#, MP 3000#. WOC.
- 10-13-57 2320-PBD WOC.
- 10-14-57 Perf BASAL UPPER HERMOSA 2294-2312' w/4 jets/ft. W/pkr @ 2247' swb dry. Prep acid w/250 gals MCA.
- 10-15-57 Acid perfs 2294-2312' w/250 gals MCA. MP 1800# @ .3 BPM. Swb 15 BLW; now swb 1/4 to 1/2 BW per hr w/sli sulphur odor. Prep to acidize.
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- 10-17-57 Acidized perfs 2294-2312' w/1000 gals LST, MP 900#, Min. 700#; inj rate 1 BPM. Swb 42 bbls LW & AW 4 hrs. Swb 51 bbls sli salty sulphur water 15 hrs. Prep set BP & re-perf.
- 10-18-57 Set BP @ 2290' & perf 2270-80' w/4 holes/ft. W/pkr @ 2219' & bottom of tail pipe @ 2280', swb 9 bbls SWtr/hr f/10 hrs w/sli show oil. Prep to P&A.
- 10-19-57 Prep to P&A.
- 10-20-57 2290-PBD. Pulled & rec 1976' 5½" csng. Spotted 25 ex cnt 1987-1915'; 25 ex 1356-1284; 35 ex 515-475'. COMPLETED DRY HOLE.

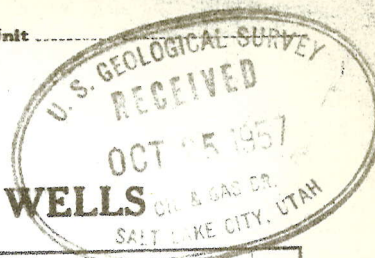




(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYand Office Salt Lake  
Lease No. Utah 6135

Unit \_\_\_\_\_



## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	<b>XI</b>
NOTICE OF INTENTION TO ABANDON WELL	<b>XI</b>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 19, 1957

FEDERAL SOUTHERN UNIONWell No. 1 is located 590 ft. from N line and 780 ft. from E line of sec. 22NE 1/4 NE 1/4 Section 22  
(1/4 Sec. and Sec. No.)36-S  
(Twp.)16-E  
(Range)Salt Lake  
(Meridian)Wildcat  
(Field)San Juan  
(County or Subdivision)Utah  
(State or Territory)The elevation of the ~~surface~~ <sup>surface</sup> above sea level is 5484 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See supplementary well history attached.

Will plug and abandon as follows per instructions U.S.G.S., Casper, Wyoming:

25 sacks cement plug 1987-1915'.  
25 sacks cement plug 1356-1284'.  
35 sacks cement plug 525-475'.

After standing two weeks, will cap with cement and install regulation marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SINCLAIR OIL & GAS COMPANYAddress 601 Denver Club BuildingDenver 2, ColoradoBy Frank H. SmithTitle Asst. Div. Prod. Supt.

Approved

OCT 18 1957

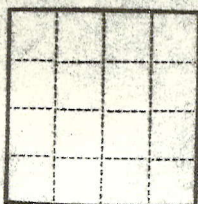
  
District Engineer



FEDERAL SOUTHERN UNION WELL NO. 1

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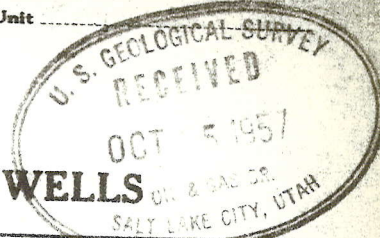




(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYLand Office Salt LakeLease No. Utah 4335

Unit \_\_\_\_\_



## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
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NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	<b>XX</b>
NOTICE OF INTENTION TO ABANDON WELL	<b>XX</b>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

FEDERAL SOUTHERN UNION

October 12, 1957

Well No. 1 is located 590 ft. from N line and 780 ft. from E line of sec. 22NE 1/4 NE 1/4 Section 22  
(1/4 Sec. and Sec. No.)14-S  
(Twp.)16-E  
(Range)Salt Lake  
(Meridian)Wildcat  
(Field)San Juan  
(County or Subdivision)Utah  
(State or Territory)The elevation of the surface ~~land surface~~ above sea level is 5484 ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

See supplementary well history attached.

Will plug and abandon as follows per instructions U.S.G.S., Casper, Wyoming:

25 sacks cement plug 1987-1915'.

25 sacks cement plug 1356-1284'.

35 sacks cement plug 515-475'.

After standing two weeks, will cap with cement and install regulation marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company SINCLAIR OIL & GAS COMPANYAddress 601 Denver Club BuildingDenver 2, ColoradoBy James H. Smith

Approved OCT 19 1957

Title Asst. Div. Prod. Supt.



FEDERAL SOUTHERN UNION WELL NO. 1

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**APPROVED**

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake  
Lease No. Utah 04335  
Unit \_\_\_\_\_

JUN 9 1958  
JERRY W. LONG  
ACTING DISTRICT ENGINEER

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

NOV 12 1957

**RECEIVED**  
NOV 8 1957  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

**SUNDRY NOTICES AND REPORTS ON WELLS**

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WELL SHUT-OFF
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NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

**FEDERAL SURVEY UNION**

November 1, 1957

Well No. 1 is located 599 ft. from N line and 780 ft. from E line of sec. 22

14-4 14-4 14-4 Salt Lake  
(Twp.) (Range) (Meridian)  
Wildcat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~land surface~~ Surface above sea level is 5284 ft.

**DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well has been plugged and abandoned in accordance with plugging procedure per Form 9-331a dated October 19, 1957. After standing for two weeks, well has been capped with cement and a regulation marker installed.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Sinclair Oil & Gas Company

Address 601 Denver Club Building

Denver, Colorado

By Ford H. H. H.

Title Asst. Div. Prod. Supt.

383

(22)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

# LOG OF OIL OR GAS WELL

## LOCATE WELL CORRECTLY

Company Sinclair Oil & Gas Company Address 601 Denver Club Bldg., Denver, Colo  
Lessor or Tract Federal Southern Union Field Wildcat State Utah  
Well No. 1 Sec. 22 T. 38S R. 16E Meridian SLPM County San Juan  
Location 590 ft N of Line and 780 ft W of E Line of Section 22 Elevation 5484 GL  
(Derive floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date November 8, 1957 Signed J. O. A. [Signature]  
Title Asst. Dir. Syst. Prod. Syst.

The summary on this page is for the condition of the well at above date

Commenced drilling August 22, 1957 Finished drilling October 19, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by  $G$ )

No. 1, from ~~DAY HOLE~~ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_

No. 2, from \_\_\_\_\_ to \_\_\_\_\_

No. 3, from \_\_\_\_\_ to \_\_\_\_\_

No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

[illegible]

## MUDDING AND CEMENTING RECORD

[illegible]

## PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----  
Adapters—Material ----- Size -----

## SHOOTING RECORD

[illegible]

## TOOLS USED

Rotary tools were used from ~~surface~~ feet to ~~385 to~~ feet, and from ----- feet to ----- feet  
Cable tools were used from ----- feet to ----- feet, and from ----- feet to ----- feet

## DATES

....., 19..... Put to producing ..... 19.....

The production for the first 24 hours was ..... barrels of fluid of which .....% was oil; .....% emulsion; .....% water; and .....% sediment Gravity, °Bé. ....

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. ....

## EMPLOYEES

<b>H. T. Adams</b> .....	Driller	<b>O. L. Bass</b> .....	Driller
<b>P. W. Cope</b> .....	Driller	<b>Basin Drilling Corporation</b> .....	Driller

## FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
2301	2322		Limestone, vuggy, fine, sulphur odor, crystalline some calcite inclusions, silty shale.
<p><u>WELL SURVEYS:</u> Electric log - Surface to 3894 - Schlumberger  Microlog - Surface to 3891 - Schlumberger  GR &amp; NS - Surface to 3894 - Schlumberger  GR &amp; NS - Surface to 2564 - McCullough</p>			
<p><u>PERFORATION RECORD:</u> 2328-2342 with 4 holes per ft., 2270-2280 with 4 holes per ft.</p>			
<p><u>TREATMENT RECORD:</u> 2328-2342 w/500 Gals MCA. Min press: 1400; 2294-2312 w/250 Gals MCA 1800 Max Press. 2294-2312 w/1000 Gals LST. Max Press: 900. Min: 700.</p>			
<p><u>SEE ATTACHED SHEET FOR CORES AND DRILL STEM TESTS.</u></p>			
<p><u>GEOLOGICAL TOPS (Schlumberger)</u></p>			
Hemlock	1334	4150	
Paradox	2317	4367	
Lower Hemlock	2890	4594	
Nolas	3152	4832	
Mississippian	3342	4942	
Devonian	3890	4634	

COMPLETION RECORD: Having drilled to 3885-TD and having found no oil or gas in commercial quantities, we have plugged and abandoned this well as follows: Spotted 25 ex. out plug 1987-1915; 25 ex 135-120; 35 ex 515-475. Regulation 4" dia marker set in place, all intervening spaces filled with heavy mud. Location cleared.



CORES AND DRILL STEM TESTS

- 9-15-57 Core #1, Basal Upper Hermosa, 2301-22'; Rec 21'; 4' limestone, very wuggy, grey, heavily spotted oil stain, strong sulphur odor, some oil saturation, much bleeding; 3' limestone, light brown, very wuggy, fine oil saturation, much bleeding; 2' limestone, white to grey, fine crystalline, some vug porosity, spotty oil stain and bleeding; 3' limestone, white, fine crystalline, fine oolitic trace fine vug porosity, strong sulphur odor, trace oil stain, 1' limestone, grey, fine to medium crystalline, hard and tight, 4' limestone, light brown, very fine crystalline, hard, small calcite inclusions, 4' limestone, light brown, hard, some black silty trashy shale laminated fossils.
- 9-16-57 DST Basal Upper Hermosa, open 1 hr., air immediately with weak blow. Rec 20' drilling mud with very slight trace oil. FP=45# 160# SIP 60" not max.